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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/529,010	11/22/2000	Andreas Voigt	051480-5017	1235
9629	7590 11/20/2003		EXAMINER	
9629 7590 11/20/2003 MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW			DOUGHERTY	, THOMAS M
	TON, DC 20004	NW	ART UNIT .	PAPER NUMBER
	•		2834	
			DATE MAILED: 11/20/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

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. A.	Application No.	Applicant(s)	
	09/529,010	VOIGT ET AL.	
Office Action Summary	Examiner	Art Unit	
	Thomas M. Dougherty	2834	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REL THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stated and the period by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b). Status	N. t 1.136(a). In no event, however, may a repl reply within the statutory minimum of thirty () iod will apply and will expire SIX (6) MONTH tute. cause the application to become ABAN	y be timely filed 30) days will be considered timely. IS from the mailing date of this comm	nunication.
1) Responsive to communication(s) filed on			
<u></u>	 his action is non-final.		•
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 Since this application is in condition for allow closed in accordance with the practice under 	wance except for formal matter er <i>Ex parte Quayle</i> , 1935 C.D. <i>1</i>	s, prosecution as to the m I1, 453 O.G. 213.	ents is
Disposition of Claims			
4) Claim(s) 1-10 and 13-19 is/are pending in the	ne application.		
4a) Of the above claim(s) is/are withd	• •		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-10 and 13-19</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10)⊠ The drawing(s) filed on 22 November 2002 is	s/are: a)⊠ accepted or b)□ o	bjected to by the Examine	er.
Applicant may not request that any objection to t	he drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	ection is required if the drawing(s)	is objected to. See 37 CFR	1.121(d).
11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. §§ 119 and 120			
12) △ Acknowledgment is made of a claim for fore a) △ All b) □ Some * c) □ None of:		19(a)-(d) or (f).	
1. Certified copies of the priority docume2. Certified copies of the priority docume	ents have been received. Ents have been received in Ann	dication No	
3. Copies of the certified copies of the provided the pro	riority documents have been re	ceived in this National Sta	iae
application from the International Bure	eau (PCT Rule 17.2(a)).		.5-
* See the attached detailed Office action for a li 13) Acknowledgment is made of a claim for dome	IST Of the certified copies not re-	ceived. 110(a) (tala provisional an	در و ندو دارم
since a specific reference was included in the 37 CFR 1.78.	first sentence of the specification	on or in an Application Da	ta Sheet.
a) The translation of the foreign language p	provisional application has been	n received.	
14) Acknowledgment is made of a claim for dome reference was included in the first sentence of	stic priority under 35 U.S.C. §§ the specification or in an Appli	· 120 and/or 121 since a s cation Data Sheet. 37 CFI	pecific R 1.78.
ttachment(s)			
) Notice of References Cited (PTO-892)	4) 🔲 Interview Sum	mary (PTO-413) Paper No(s)	_
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Infor	mal Patent Application (PTO-152	2)
Patent and Trademark Office OL-326 (Rev. 11-03) Office	Action Summary	Part of Pape	er No. 19

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DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 10 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no proper antecedent basis for recitation of "the marginal areas" in these claims. Additionally, the very nature of a hole is a lack, therefore it cannot possibly be compressed. These claims are so indefinite that prior art cannot be applied against them at this time. When they are made definite a consideration of their relationship to the prior art may be made.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-5, 7, 13, 14 and 16 are rejected under 35 U.S.C. 102(e) as being Anticipated by Tashiro et al. (US 6,494,288). Tashiro et al. show (fig. 3) an actuator unit comprising: a piezoelectric actuator (see for example, col. 5, II. 41-44, claims 11 and 12); a hollow body (fig. 4b) being elastic and biasing the actuator (col. 3, see II. 59-67), characterized in that the hollow body is joined tensionally and/or positively to the upper and lower end of the actuator and the hollow body.

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The actuator is gripped in its direction of expansion between an upper and lower cover plate (not numbered in fig. 4b) which are tensionally and/or positively joined to the hollow body.

The hollow body for biasing a piezoelectric actuator, the hollow body being made elastic (again see col. 3, II. 59-67).

The holes are arranged in rows one above the other, the holes of the rows being laterally offset from one another.

By sight, the minimum distance between adjacent holes of two rows is one or three times the thickness of the hollow body.

The holes are made of spring steel (col. 3, I. 60). Whether or not the holes are punched out or not is not germane to the structure. As is, the claimed invention is the same whether or not the holes are punched out or cut out by laser machining. The steel sleeve behaves as a spring ergo it is spring steel.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tashiro et al. (US 6,494,288) in view of Montgomery (US 5,166,908). Given the

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invention of Tashiro et al. as noted above, they do not show their holes distributed uniformly over the circumference of the hollow body.

Given the invention of Montgomery as noted in paper 11, Montgomery does not show dumbbell shaped holes.

It would have been obvious to one having ordinary skill in the art to have dumbbell shaped holes in the device of Montgomery such as is shown by Tashiro et al. since this shape provides for flexing of the structure, as noted by Tashiro et al. thereby allowing it to be subject to a greater variety of motion which provides additional structural protection to the device.

Claims 8, 9, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tashiro et al. (US 6,494,288). It is not clear how the Tashiro device is made. How the device was made however is not germane to the patentability of the invention since other means of making the device result in a similar structure. Therefore, this carries no patentable weight.

Direct inquiry concerning this action to Examiner Dougherty at (703) 308-1628.

November 18, 2003